

Session Program

2-8 Nov 2025



42nd International Symposium on Lattice Field Theory (Lattice 2025)

Structure of hadrons and nuclei

TIFR Mumbai, Homi Bhabha Auditorium

Tata Institute of Fundamental Research, 1, Homi Bhabha Road, Navy Nagar, Colaba, Mumbai, India. Pin - 400 005

Tuesday 4 November

14:50

Structure of hadrons and nuclei

Session | Location: AG80 | Convener: Kehfei Liu

14:50-15:10 The gluon and x-dependent isoscalar quark structure of the nucleon

Speaker

Christopher Monahan

15:10-15:30 The hadronic tensor from four-point functions on the lattice

Speaker

Christian Zimmermann

15:30-15:50

Higher Moments of Parton Distribution Functions from Lattice QCD at the Physical Point

Speaker

Emilio Taggi

15:50-16:10 Moments of non-singlet pion PDFs up to $\langle x^5 \rangle$ using gradient flow

Speaker

Dimitra Pefkou

16:10

16:40

Structure of hadrons and nuclei

Session | Location: AG80 | Convener: Dimitra Pefkou

16:40-17:00 The Three-Dimensional Structure of the Nucleon through Lattice QCD

Speaker

David Richards

17:00-17:20

Parton physics from a heavy-quark operator product expansion: Dynamical lattice QCD calculation of moments of the pion and kaon light-cone distribution amplitude

Speaker

S.-P. Alex Chang

17:20-17:40 x-dependent Light Baryon LCDAs from Lattice QCD

Speaker

Mu-Hua Zhang

17:40-18:00

Partonic functions in Minkowsky space with tensor networks - a Schwinger model study

Speaker

Manuel Schneider

18:00

Wednesday 5 November

09:00

Structure of hadrons and nuclei

Session | Location: AG80 | Convener: Marcel Rodekamp

09:00–09:20

Electric Polarizability of Charged Pions from nHYP Four-Point Functions

Speaker

Benjamin Luke

09:20–09:40

Probing Instanton Dynamics in the Pion Vector Form Factor with Wilson Flow

Speaker

Vaibhav Chahar

09:40–10:00

The Electromagnetic Form Factor of the Rho Meson on the Lattice

Speaker

Ajay Shanmuga Sakthivasan

10:20

10:50

Structure of hadrons and nuclei

Session | Location: AG80

10:50–11:10

Recent update of nucleon axial-vector charge with the PACS10 superfine lattice

Speaker

Masato Nagatsuka

11:10–11:30

Updates on the calculation of nucleon matrix elements

Speaker

Tanmoy Bhattacharya

11:30–11:50

Precision Scale Setting in Lattice QCD Using Baryon Spectra and Decay Constants

Speaker

Jun-Sik Yoo

12:00

Thursday 6 November

14:30

Structure of hadrons and nuclei

Session | **Location:** AG80 | **Convener:** Gunnar Bali

14:30-14:50

Nucleon isovector electromagnetic form factors from $N_f=2+1$ CLS ensembles

Speaker

Marcel Rodekamp

14:50-15:10

Flavor structure of the nucleon axial form factor from lattice QCD

Speaker

Alessandro Barone

15:10-15:30

Pressure-Energy Equations of State of Hadrons

Speaker

Kehfei Liu

15:30-15:50

Nucleon strange electromagnetic form factors using $N_f=2+1+1$ twisted-mass fermions at the physical point

Speaker

Bhavna Prasad

16:30

Friday 7 November

16:40

Structure of hadrons and nuclei

Session | Location: AG69 | Convener: Christopher Monahan

16:40-17:00

Quark mass dependence of higher-twist in nucleon structure functions

Speaker

Dr K. Utku Can

17:00-17:20

Lattice extraction of the Collins-Soper kernel using the auxiliary field representation of the Wilson line

Speaker

Wayne Morris

17:20-17:40

Lattice QCD Frontiers in TMD Physics

Speaker

Swagato Mukherjee

17:40-18:00

Extracting Collins-Soper Kernel from Transverse-momentum-dependent Wave Functions on Lattice QCD

Speaker

ZHICHAO GONG

18:20